

CLAIMS

What is claimed is:

1. A cutterhead, comprising:
 - a cylindrical main body portion, having a cylindrical outer surface, including a knife recess for receiving a knife therein, said knife recess forming a channel extending along the main body portion, said recess having an angled sidewall;
 - a primary shaft extending from a first end of the main body portion;
 - a secondary shaft extending from a second end of the main body portion, generally opposite the primary shaft; and
 - a knife assembly including:
 - a lock bar configured to be received in the knife recess, the lock bar including an angled side arranged to sandwich the knife between the angled sidewall and the lock bar;
 - an index pin for generally fixing the knife relative to the lock bar;
 - a height adjustment screw threading with a corresponding threaded aperture included in the lock bar to adjust the height of the lock bar with respect to the outer cylindrical surface of the main body portion; and
 - a securing screw, for securing the lock bar to the main body, with a threaded aperture extending through said cylindrical outer surface of the main body portion to a side of the recess generally opposite the angled sidewall,wherein the knife assembly permits access to the height adjustment screw from above the lock bar when the knife assembly is received in the knife recess.
2. The cutterhead of claim 1, wherein the securing screw extends at least partially into the lock bar.
3. The cutterhead of claim 1, wherein the lock bar includes an aperture for receiving the index pin.

4. The cutterhead of claim 1, wherein the index pin is fixed to the lock bar.
5. The cutterhead of claim 1, wherein the angled sidewall of the knife recess is angled in the range of between 25° (twenty-five degrees) to 35° (thirty-five degrees) from an extended diameter line and a line extending through the angled sidewall.
6. The cutterhead of claim 1, wherein the angled sidewall of the knife recess is angled in the range of between 27° (twenty-seven degrees) to 34° (thirty-four degrees) from an extended diameter line and a line extending through the angled sidewall.
7. The cutterhead of claim 1, further comprising a spring disposed in the knife recess between the knife and a bottom wall of the knife recess.
8. The cutterhead of claim 1, wherein the cutterhead is configured to accept three knives.
9. The cutterhead of claim 1, wherein the primary shaft includes means for securing the shaft.
10. The cutterhead of claim 9, wherein the securing means is a flattened portion, an alignment aperture, or a mechanical interlock.
11. The cutterhead of claim 1, wherein the knife recess is configured to accept a double headed knife.
12. The cutterhead of claim 1, wherein the cutterhead is configured for utilization with a joiner.

13. A cutterhead, comprising:

- a cylindrical main body portion, having a cylindrical outer surface, including a knife recess, said knife recess forming a channel extending along the main body portion, said recess having an angled sidewall;
 - a primary shaft extending from a first end of the main body portion;
 - a secondary shaft extending from a second end of the main body portion, generally opposite the primary shaft; and
 - a knife assembly including:
 - a knife extending generally along the main body portion, the knife including a knife aperture therein;
 - a lock bar configured to be received in the knife recess, the lock bar including an angled side arranged to sandwich the knife between the angled sidewall and the lock bar ;
 - an index pin for being received in the knife aperture fixing the knife relative to the lock bar;
 - a height adjustment screw threading with a corresponding threaded aperture included in the lock bar to adjust the height of the lock bar with respect to the outer cylindrical surface of the main body portion; and
 - a securing screw, for securing the lock bar to the main body, with a threaded aperture extending through said cylindrical outer surface of the main body portion to a side of the recess generally opposite the angled sidewall,
- wherein the knife aperture is elongated along a primary axis of the knife to allow for adjustable positioning of the knife with respect to the main body.

14. The cutterhead of claim 13, wherein the securing screw extends at least partially into the lock bar.

15. The cutterhead of claim 13, wherein the lock bar includes an aperture for receiving the index pin.

16. The cutterhead of claim 13, wherein the index pin is fixed to the lock bar.
17. The cutterhead of claim 13, wherein the cutterhead is configured to accept three knives.
18. The cutterhead of claim 13, wherein the primary shaft includes means for securing the shaft.
19. The cutterhead of claim 18 wherein the securing means is a flattened portion, an alignment aperture, or a mechanical interlock.
20. The cutterhead of claim 13, wherein the knife recess is configured to allow for approximately a 1/8" (one-eighth inch) adjustment.

21. A cutterhead, comprising:
 - a cylindrical main body portion, having a cylindrical outer surface, including a knife recess for receiving a knife therein, said knife recess forming a channel extending along the main body portion;
 - a primary shaft extending from a first end of the main body portion;
 - a secondary shaft extending from a second end of the main body portion, generally opposite the primary shaft; and
 - means for securing the knife in a desired orientation in the knife recess,wherein the cutterhead is configured to allow for adjustable positioning of the knife, generally along a primary axis of the main body portion.
22. The cutterhead of claim 21, wherein the primary shaft includes means for securing the shaft.
23. The cutterhead of claim 22 wherein the securing means is a flattened portion, an alignment aperture, or a mechanical interlock.
24. The cutterhead of claim 21, wherein the securing means is constructed to allow for approximately a 1/8" (one-eighth inch) adjustment.